430/630 Linear Algebra II

A course in linear algebra emphasizing abstract vector spaces and linear maps.

Instructor

Dr Eric Olson
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Office Hours

MW 2–3pm, F 1–2pm, and by appointment. If I'm in my office and you don't have an appointment, I can almost always take 15 minutes to answer a question.

Text

1. *Linear Algebra Done Right*, Sheldon Axler, Second Edition, Springer–Verlag, 2000.

Supplemental text

2. *Matrix Analysis and Applied Linear Algebra*, Carl D. Meyer, SIAM, 2000.

Grading

4 Quizzes	15 points each
1 Midterm	50 points
1 Final	80 points
8 Homework Assignments	10 points each
	270 points total

Topics Covered

We will cover the first 8 chapters of the text. Topics include complex numbers, bases, dimension, the null space, invariant subspaces, norms, orthonormal bases, normal operators, the spectral theorem, polar and singular-value decompositions, the minimum polynomial and the Jordan form.

Equal Opportunity Statement

The Mathematics Department is committed to equal opportunity in education for all students, including those with documented physical disabilities or documented learning disabilities. University policy states that it is the responsibility of students with documented disabilities to contact instructors during the first week of each semester to discuss appropriate accommodations to ensure equity in grading, classroom experiences and outside assignments.

Academic Conduct

Bring your student identification to all exams. Work independently on all exams and quizzes. Behaviors inappropriate to test taking may disturb other students and will be considered cheating. Don't talk or pass notes with other students during an exam. Homework may be discussed freely. If you are unclear as to what constitutes cheating, please consult with me.